Model #: SM2200RMDVTAA

SmartPro Line Interactive Dual Voltage Rack/Tower UPS System - Maintains 120V nominal output with either 120V or 230V input power

Highlights

- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases
- 2200VA / 2.2kVA / 1920 watt line interactive, extended-run 3U rack / tower UPS powers 120V devices from global power sources
- Maintains sine-wave 120V nominal output over an input range of 89-148V or 212-286V
- Network communications supported via HID enabled USB port, DB9 serial port, SNMP/Web card slot and EPO interface
- Support for 2 post, 4 post and upright tower installation with included accessories
- Input: C20 inlet and 4 included international plug sets / Output: 4 NEMA 5-15/20R, 4 NEMA 5-15R (120V)

Description

Tripp Lite's dual input voltage SM2200RMDVTAA line interactive UPS system maintains 120V nominal output when powered by North American 120V or International 230V input. Protects a variety of computer, networking and other sensitive equipment types from blackouts, voltage fluctuations and transient surges. 3U rack / tower form factor with an installed depth of only 22.5 inches. Expandable battery runtime with optional BP48V24-2U and BP48V60RT3U external battery packs. Uninterruptible Power Supply (UPS) switches to battery-derived AC output during power failures and extreme voltage variations. Line interactive Automatic Voltage Regulation (AVR) offers voltage boost during brownouts and voltage cut during overvoltages to maintain regulated 120v output over an input range of 89 to 148V or 212 to 286V. Includes C20 power inlet with set of 4 international cord sets and both NEMA 5-15R and 5-15/20R output receptacles. Network-grade AC surge and noise suppression. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated 2-bank programmable PDU switching supports load shedding and remote-reboot of up to 2 individual connected devices. 3-stage metered current monitoring and battery charge status LEDs. 95% efficiency in line power mode reduces energy cost and BTU emissions. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Installation accessories for rackmount and upright tower form factors included. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty; extended warranty and service contracts available.

Package Includes

- SM2200RMDVTAA UPS system
- 5 international input power cables
- USB, DB9, EPO cabling and PowerAlert software
- 2-9USTAND tower stand kit
- 2POSTRMKITHD two-post rackmount kit
- 4POSTRAILKIT are also included
- User manual

Features

- SmartPro SM2200RMDVTAA dual-voltage line interactive UPS system maintains 120V nominal output with either 120V or 230V input power
- Ideal for voice, data and networking applications requiring 120V output from worldwide power sources
- Line interactive Automatic Voltage Regulation (AVR) offers voltage boost during brownouts and voltage cut during overvoltages
- Maintains continuous operation through blackouts, voltage fluctuations and surges
- Corrects line voltage conditions between 89 to 148V or 212 to 286V to 120V nominal output
- Standard internal battery set offers 30 minutes runtime at half load (960 watts) and 12 minutes at full load (1920 watts)
- Includes C20 power inlet with set of 4 international cord sets to support 5-20P, Schuko, CEE 7 / EU1-16P, British BS1363A and Italian CEI 23-16 plug types
- Includes NEMA 5-15R and 5-15/20R output receptacles
- Network-grade AC surge and noise suppression
- Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces
- Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface
- Integrated 2-bank PDU switching supports load shedding and remote-reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs
- 95% efficiency in line power mode reduces energy cost and BTU emissions
- Utility power and voltage regulation LEDs
- Installation accessories for rackmount and upright tower form factors included
- Field-replaceable, hot-swappable internal batteries and external battery packs
- 2-year warranty; extended warranty and service contracts available

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1920
Output kW capacity	1.92
Output power factor	.87
Nominal Output Voltage(s) Supported	120V
Frequency compatibility	50 / 60 Hz
Frequency compatibility details	Auto-sensing
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	4 5-15R outlet(s); 4 5-15/20R outlet(s)
Built-in controllable switched load banks	Two switchable single-outlet 5-15R load banks
Basic PDU options	PDU1220 (1U / 13 5-15/20R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDUV20 (0U / 12 5-15/20R outlets); PDU40TDUAL (0U / 40 5-15/20R outlets)
Metered PDU options	PDUMH20 (1U / 13 5-15/20R outlets); PDUMH20AT (1U / 16 5-15/20R outlets)*; PDUMV20 (0U / 16 5-15/20R outlets); PDUMV40 (0U / 32 5-15/20R outlets)

Monitored PDU options	PDUMNV20 (0U / 24 5-15/20R outlets); PDUMNH20 (1U / 16 5-15/20R outlets)
Switched PDU options	PDUMH20ATNET (1U / 16 5-15/20R outlets)*; PDUMV20NET (0U / 24 5-15/20R outlets)
External PDU redundancy options	Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave

INPUT

Rated input current (at maximum load)	16A (120V), 10A (230V)
Nominal Input Voltage(s) Supported	120V AC; 230V AC
UPS input connection type	5-20P; C20 inlet
UPS input connection description	C20 inlet and 5 compatible plugsets (5-20P, Schuko CEE7, EU1-16P, British BS1363, Italian CEI 23-16)
Input circuit breaker	20A
UPS Input cord length (ft.)	6
UPS Input cord length (m)	1.8

BATTERY

Full load runtime (minutes)	12 minutes (1920 watts)
Half load runtime (minutes)	30 minutes (960 watts)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90% (internal batteries)
Replacement battery cartridge (internal UPS battery replacement)	RBC49-DV (quantity 2 required)
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries

VOLTAGE REGULATION

Voltage regulation description	Automatic voltage regulation (AVR) maintains 120v line power output with input range of 89 to 148 or 170 to 286
Overvoltage correction	Voltage reduction of 12% applies when input is between 127 and 148 (120V)
Undervoltage correction	Voltage boost of 12% applies when input voltage is between 96 and 108 (120V)

LEDS ALARMS & SWITCHES

LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; rear panel protected switches support nominal voltage selection

SURGE / NOISE SUPPRESSION

UPS AC suppression joule rating	340
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes

PHYSICAL

Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included); 2 post 19 inch rackmount (mounting rail kit included); Tower
Included mounting accessory description	Complete installation accessories available for 2 post, 4 post and tower installation
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.25 x 17.5 x 25.25
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 64.1
Installed whole system total rack space height (rack spaces)	3U
Secondary form factor	Tower
UPS / Power Module weight (lbs)	104.25
UPS / Power Module weight (kg)	47.3
UPS Shipping dimensions (height x width x depth / inches)	11.5 x 29.5 x 30.5
UPS Shipping dimensions (height x width x depth / cm)	29.2 x 151.6 x 129
Shipping weight (lbs)	159.5
Shipping weight (kg)	72.4
UPS housing material	Steel
Cooling method	Fan

ENVIRONMENTAL

Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius.
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius.
Relative Humidity	0 to 95%, non-condensing
AC mode BTU / hr. (full load)	347
Battery mode BTU / hr. (full load)	604.4

COMMUNICATIONS

Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications

LINE / BATTERY TRANSFER

Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	89 (120V), 170 (230V)
High voltage transfer to battery power (setpoint)	148 (120V), 286 (230V)

SPECIAL FEATURES

Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries
Green & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks

CERTIFICATIONS

UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); TAA Compliant

WARRANTY

Product Warranty Period (U.S., Canada & Puerto Rico)	2-year limited warranty

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
External Battery Packs	BP48V24-2U	BP48V242U - External Battery Pack for UPS System	1
External Battery Packs	BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	1

Power Distribution	PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
Power Distribution	PDUMH20	Metered PDU / Power Distribution Unit- Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMH20ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and SNMP network interface	1
Power Distribution	PDUMNH20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMNV20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMV20	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMV20NET	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	1
Power Distribution	PDUV20	Safe, reliable power distribution for critical networking equipment	1
Rack Accessories	SRSWITCH	Magnetic Door Switch Kit (2-pack for front and rear doors; requires ENVIROSENSE.)	1
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
Software	WATCHDOGSW	WatchDog Service Monitoring / Reboot Software	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at

www.tripplite.com/en/products/model.cfm?txtModelID=4648.